

**To:** Brown, Jamesr[brown.jamesr@epa.gov]; Kirkland, Robert[kirkland.robert@epa.gov]; McCasland, Mark[McCasland.Mark@epa.gov]; Garcia, David[Garcia.David@epa.gov]; Restivo, Angela[Restivo.Angela@epa.gov]  
**Cc:** Foster, Althea[Foster.Althea@epa.gov]; Crossland, Ronnie[Crossland.Ronnie@epa.gov]; Webster, Susan[webster.susan@epa.gov]; Martinez, Maria[Martinez.Maria@epa.gov]; Crocker, Philip[crocker.philip@epa.gov]; Nelson, Russell[nelson.russell@epa.gov]  
**From:** McCoy, Melinda  
**Sent:** Fri 8/7/2015 7:36:20 PM  
**Subject:** Water Quality Criteria - Animas River  
Animas River (NM) - WQC.xlsx

Hi Everyone,

Earlier this morning, David and Maria asked me to compile the WQS applicable to the Animas River, and to identify any previous water quality impairments (303d listings) identified. Earlier today, I sent them a list of the applicable designated uses and the 303(d) listing information (see emails forwarded below).

Additionally, I have compiled an Excel spreadsheet showing the water quality criteria applicable to the two Animas River segments. Please see attached Excel file.

Thanks,

Melinda

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Melinda McCoy, Environmental Scientist

Water Quality Standards Program

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**From:** McCoy, Melinda  
**Sent:** Friday, August 07, 2015 11:31 AM  
**To:** Garcia, David; Martinez, Maria; Brown, Jamesr  
**Cc:** Nelson, Russell  
**Subject:** Animas River WQS

Hi David and Maria,

The Animas River is a considered classified water. It is split into 2 segments between the NM/CO state line and it's confluence with the San Juan River. Estes Arroyo is the dividing line between the 2 segments. (See NMAC 20.6.4.403-404).

The table below shows the designated uses applicable to these 2 segments:

<b>Animas from confluence with Animas from Estes Arroyo</b>	
<b>San Juan upstream to Estes    upstream to NM/CO line</b>	
<b>Arroyo</b>	
Marginal coldwater and warmwater	Coldwater
Primary Contact	Primary Contact
Public Water Supply	Public Water Supply
Industrial Water Supply	Industrial Water Supply
Irrigation	Irrigation
Livestock watering	Livestock watering
Wildlife Habitat	Wildlife Habitat

The criteria applicable to each of these designated uses can be found in NMAC 6.4.900 (see attachment). I can compile all of this into an Excel spreadsheet, but for the sake of time, I'm just including the attachment right now.

Note that the DO, temperature, and pH criteria differ for each aquatic life use:

**Coldwater:** dissolved oxygen 6.0 mg/L or more, 6T3 temperature 20°C (68°F), maximum temperature 24°C (75°F) and pH within the range of 6.6 to 8.8. Where a single segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 6T3 temperature applies.

**Marginal Coldwater:** dissolved oxygen 6 mg/L or more, 6T3 temperature 25°C (77°F), maximum temperature 29°C (84°F) and pH within the range from 6.6 to 9.0. Where a single segment-specific

temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 6T3 temperature applies.

**Warmwater:** dissolved oxygen 5 mg/L or more, maximum temperature 32.2°C (90°F) and pH within the range of 6.6 to 9.0. Where a segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature.

I'll send you the 303d information as soon as I gather it.

Thanks,

Melinda

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**From:** McCoy, Melinda  
**Sent:** Friday, August 07, 2015 11:44 AM  
**To:** Garcia, David; Martinez, Maria; Brown, Jamesr  
**Cc:** Nelson, Russell  
**Subject:** Animas 303d listings (2014-2016 reporting cycle)

Hi David, Maria, and Jim,

From New Mexico's 2014-2016 Integrated Report. Here are the impairments identified for the Animas River (categories 4 and 5).

8-digit HUC	AU_IIA Name	USGS Name	HUC	WATERQS	SIZE	REF ID	PAIRMENT	Category	STATUS	EPA (by	FIRS TMDL	CYC LIST
14080104	NM- Animas River (Estes 2404_0	Animas River (Estes 2404_0	Arroyo to So. Ute Indian Tribe bnd)	18.8 MILES	1.404	1.404	Temperature	5/5B	TMDL	Approval	2013-09-2012	Completed30
14080104	NM- Animas River (Estes 2404_0	Animas River (Estes 2404_0	Arroyo to So. Ute Indian Tribe bnd)	18.8 MILES	1.404	1.404	Phosphorus, Temperature	5/5B	TMDL	Date	2013-09-2012	Completed30
14080104	NM- Animas River (Estes 2404_0	Animas River (Estes 2404_0	Arroyo to So. Ute Indian Tribe bnd)	18.8 MILES	1.404	1.404	Temperature	5/5B	TMDL	00:00:00	2013-09-2012	Completed30
										303(d)		
										List (no TMDL in place)		1998

14080104					303(d)		
	Animas NM- Animas River (Estes 2404_Arroyo to So. Ute Indian Tribe bnd)	18.8 MILES.1404dity	5/5B	List (no TMDL in place)		2012	
1408Ah04	Animas NM- Animas River (San 2403.Au_00 River to Estes Arroyo)	16.8 MILES.1401i	4A	TMDL Completed30	2013-092012		
					00:00:00		
1408Ah04	Animas NM- Animas River (San 2403.Au_00 River to Estes Arroyo)	16.8 MILES.1403ent/Eutrophication	4A	TMDL Completed17	2006-012004		
					00:00:00		
1408Ah04	NM- Animas River (San 2403.Au_00 River to Estes Arroyo)	16.8 MILES.140perature	4A	TMDL Completed30	2013-092012		
					00:00:00		
1408Ah04	NM-			303(d)			
1408Ah04	9000.Ba_00 Farmington (Beeline Reservoir)	198ACRES1409ury in fish tissue	5/5A	List (no TMDL in place)		2004	

### Category Description

**4A** Available data and/or information indicate that at least one designated or existing use is not being supported, but a Total Maximum Daily Load (TMDL) is not needed because TMDLs have been already been established.

**5A** Available data and/or information indicate that at least one designated or existing use is not being supported and necessary TMDLs are underway or scheduled.

**5B** Available data and/or information indicate that at least one designated or existing use is not being supported and a review of the water quality standard will be conducted to verify appropriateness.

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